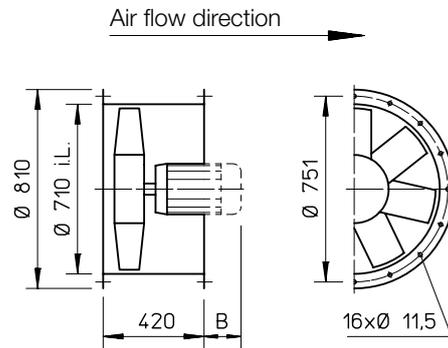


AVD DK 710



Dimensions AVD DK 710



All dimensions in mm

Dim. B see table

■ Casing

With motor bracket made from galvanised sheet steel.

■ Impeller

Hub and blades made of corrosion-resistant aluminium alloy. 10 aerodynamically profiled blades in combination with the guide vane achieve maximum efficiency and pressure ratings. Dynamically balanced, quality level 6.3 for low-vibration operation. Blades factory adjustable, see type overview for maximum pitch angle.

■ Motor

Directly driven by efficient IE3 three-phase standard motor. Pole-switching fans with IEC standard motor. Protection class IP55, insulation class F.

■ Motor protrusion

The protrudes dimension B in mm of the motor to the casing must be observed according to the type table.

■ Motor protection

All types have PTC resistors and must be protected by the following full motor protection devices: MSA, Ref. no. 01289. All other types must be protected by a conventional circuit breaker on site.

■ Electrical connection

Terminal box protection class IP55 mounted to casing. Explosion-proof types may vary.

■ Speed control

Controlled performance curves upon request. All types are speed controllable by frequency inverter (except pole-switching and explosion-proof). The planned use of a frequency inverter without sine filter must be stated when ordering. This requires a change of fan design and possible additional costs.

■ Installation

Installation in any position. Ensure that the motor drainage holes face downwards.

■ Dimensions

Pole-switching and explosion-proof types may vary from adjacent information. Motor length may vary. Note protrusion dimension B.

■ Noise levels

The sound power levels are indicated by means of frequency and as sum levels above the performance curves.

Type	Ref. no.	Speed min <sup>-1</sup>	Motor power (nom.) (output) kW	Nominal voltage V	Power consumption A	Max. pitch angle <sup>2)</sup> °	Dim. B Motor protrusion mm	Wiring diagram No.	Max. air flow temp. +°C	Net weight approx. kg	Frequency inverter <sup>3)</sup> Type	Ref. no.
<b>60° 3 phase motor, 400 V, 50 Hz, squirrel-cage rotor, protection class IP55</b>												
AVD RK 710/6 1,1 kW	40266	955	1.1	400	2.7	28	100	796	60	81	FU-BS 5	05460
AVD RK 710/6 1,5 kW	40257	955	1.5	400	3.6	37	150	796	60	87	FU-BS 5	05460
AVD RK 710/6 2,2 kW	40258	970	2.2	400	5.1	45	180	796	60	93	FU-BS 8	05461
AVD RK 710/4 2,2 kW	40259	1455	2.2	400	4.6	20	150	796	60	87	FU-BS 5	05460
AVD RK 710/4 3 kW	40260	1440	3.0	400	6.0	24	150	776	60	92	FU-BS 8	05461
AVD RK 710/4 4 kW	40261	1460	4.0	400	8.0	29	180	776	60	94	FU-BS 8	05461
AVD RK 710/4 5,5 kW	40262	1470	5.5	400	10.7	38	200	776	60	117	FU-CS 14	05875
AVD RK 710/2 7,5 kW	40263	2940	7.5	400	13.5	—	200	776	60	110	FU-CS 14	05875
AVD RK 710/2 11 kW	40267	2950	11.0	400	19.6	11	220	776	60	110	FU-CS 22	05470
<b>60° Pole-switching, 2 speed, 3 phase motor, Dahlander winding Y/Y, 400 V, 50 Hz, protection class IP55</b>												
AVD RK 710/8/4 0,55/2 kW <sup>1)</sup>	40264	680/1440	0.55/2	400/400	2/4.6	19	100	777	60	79	—	—
AVD RK 710/8/4 0,9/3,2 kW <sup>1)</sup>	06943	680/1420	0.9/3.2	400/400	3.2/7.2	26	120	777	60	88	—	—
AVD RK 710/8/4 1,5/6,3 kW <sup>1)</sup>	40265	680/1440	1.5/6.3	400/400	4.6/12.3	43	200	777	60	109	—	—
<b>Ex II Explosion-proof Ex e II, 3 phase motor, 400 V, 50 Hz, protection class IP54, temperature class T1-T3</b>												
AVD RK 710/6 Ex 2,2 kW	40876	955	2.2	400	5.2	45	105	796	40	100	not permitted	—
AVD RK 710/4 Ex 4 kW	40877	1455	4.0	400	8.25	29	105	776	40	100	not permitted	—
AVD RK 710/4 Ex 5,5 kW	40878	1455	5.5	400	11.7	39	160	776	40	115	not permitted	—

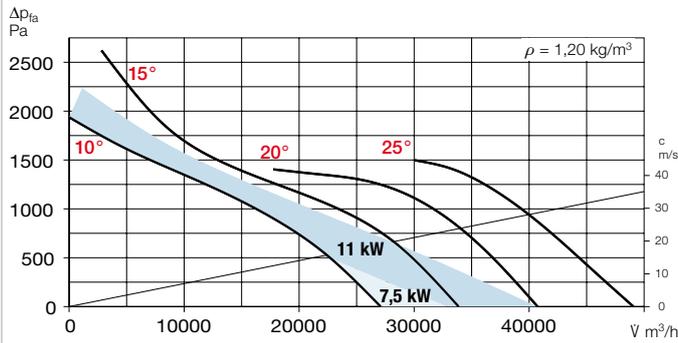
The flow volume and pressure increase information is required to determine the pitch angle.

<sup>1)</sup> Dahlander winding <sup>2)</sup> For the entire pitch angle performance curve, also higher depending on the operating point. <sup>3)</sup> Incl. full motor protection

Performance curves AVD 710/2

n=2950 1/min

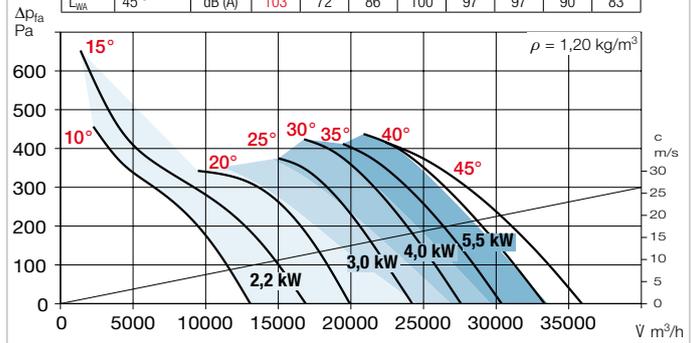
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 15°	dB (A)	113	87	86	100	109	110	105	96
L <sub>WA</sub> 25°	dB (A)	113	82	91	102	109	108	103	98
L <sub>WA</sub> 35°	dB (A)	117	92	94	104	113	112	108	101



Performance curves AVD 710/4

n=1465 1/min

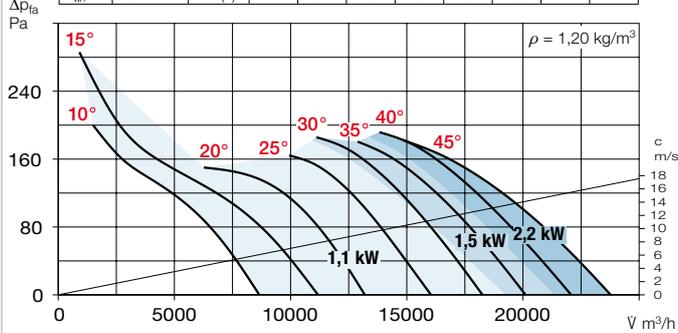
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 15°	dB (A)	95	63	78	89	92	88	82	75
L <sub>WA</sub> 25°	dB (A)	95	68	81	90	90	87	83	79
L <sub>WA</sub> 35°	dB (A)	99	70	82	94	95	92	87	82
L <sub>WA</sub> 45°	dB (A)	103	72	86	100	97	97	90	83



Performance curves AVD 710/6

n=970 1/min

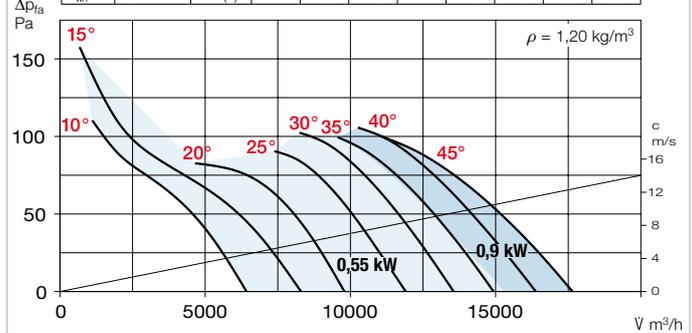
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 15°	dB (A)	84	61	73	80	80	74	69	62
L <sub>WA</sub> 25°	dB (A)	83	63	75	78	78	75	72	67
L <sub>WA</sub> 35°	dB (A)	88	64	80	81	83	79	75	70
L <sub>WA</sub> 45°	dB (A)	91	67	83	83	88	83	77	71



Performance curves AVD 710/8

n=720 1/min

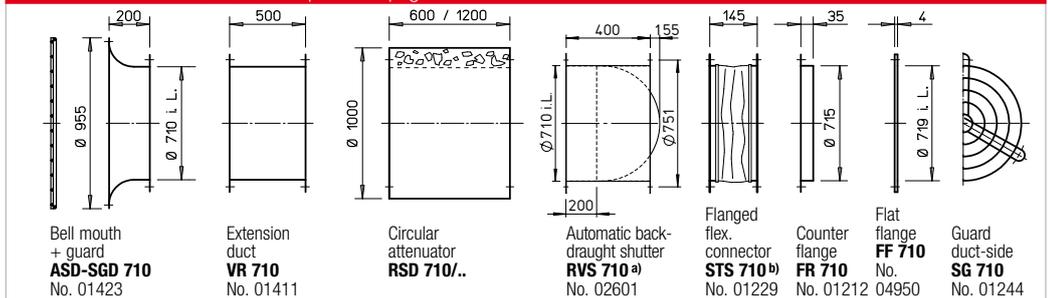
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 15°	dB (A)	76	55	67	72	70	65	60	53
L <sub>WA</sub> 25°	dB (A)	75	57	68	70	69	67	64	59
L <sub>WA</sub> 35°	dB (A)	80	59	72	75	74	70	67	61
L <sub>WA</sub> 45°	dB (A)	84	62	78	77	79	73	69	62



Note for Ex types:

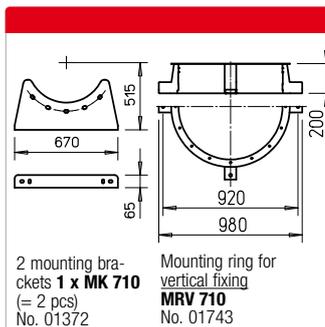
- Performance curves and sound data at [www.HeliosSelect.de](http://www.HeliosSelect.de).
- At lower medium temperatures, power consumption increases, so an appropriate power reserve must be taken into account (e.g. +16% at -20 °C and +8% at 0 °C).

Accessories for AVD RK Description see page 167 ff.



a) Motor-operated back-draught shutter see main Helios catalogue b) Types for explosion-proof fans see below

Anti-vibration mounts			
Pressure		Tensile	
Type	Ref. no.	Type	Ref. no.
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
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SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455



Information	Page
Techn. description	22 ff.
Project planning information	10 ff.
Special design	
Alternative voltage, protection class, air flow direction, higher air flow temperature and acid protection upon request.	

Other accessories	Page
b) Access. for ex-proof fans	
Flanged flexible connector Type STS 710 Ex	No. 02510
Mounting accessories	164 ff.
Attenuators	172
Gas warning systems, switch and control technology	174 ff.
Frequency inverter	184 ff.